
$$X^2 = \text{CO, CS or SO}_2$$
$$X^3 = \text{O, S, CH}_2, \text{CF}_2, \text{CFH, NH, NCH}_3$$

Figure 1

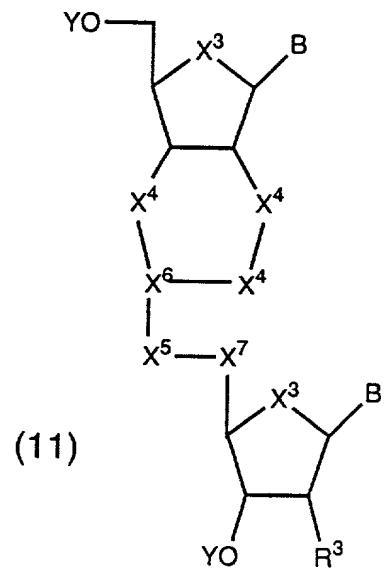
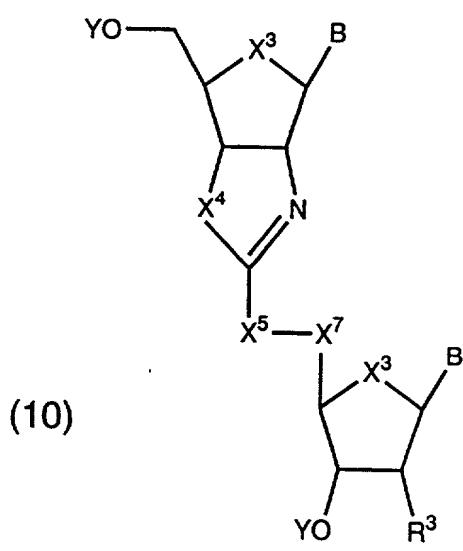
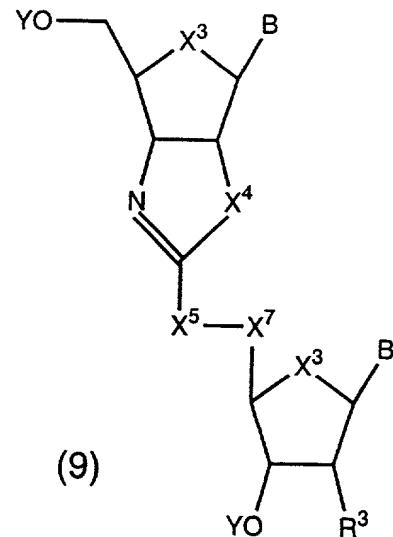
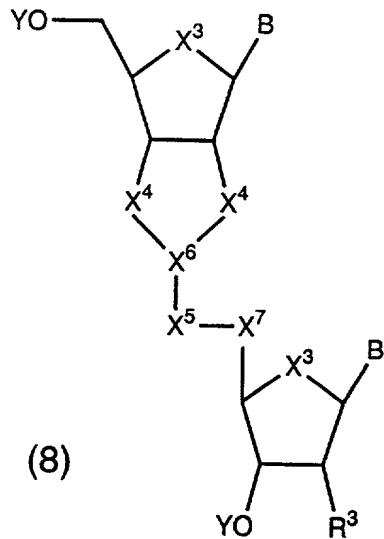
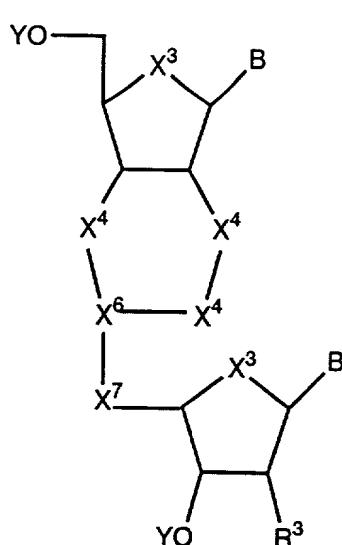
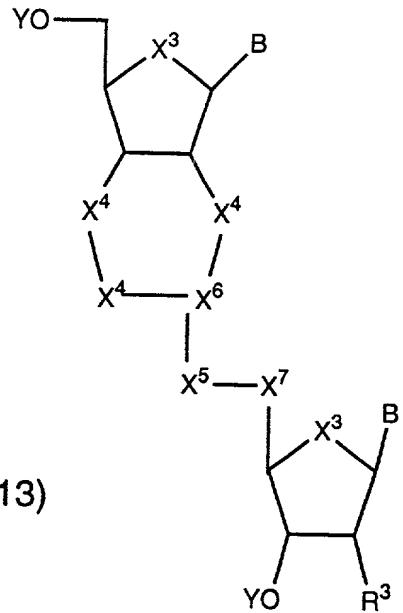


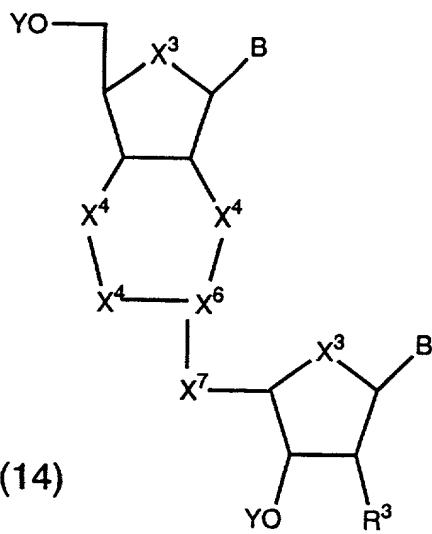
Figure 2



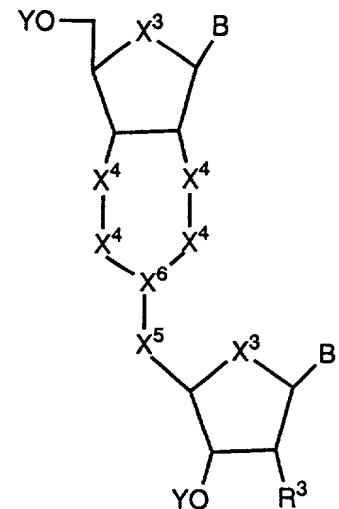
(12)



(13)



(14)



(15)

Figure 3

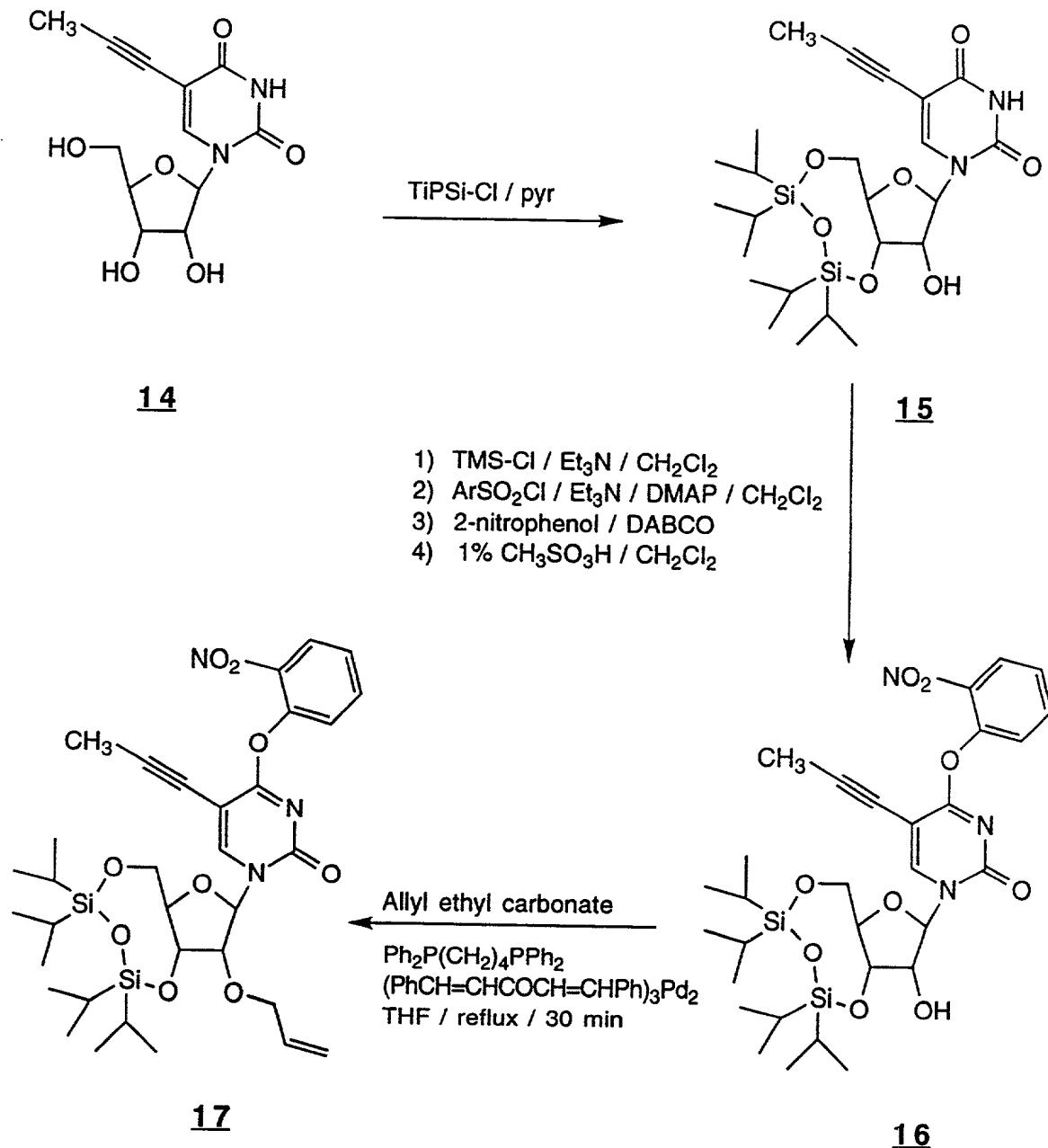


Figure 4-1

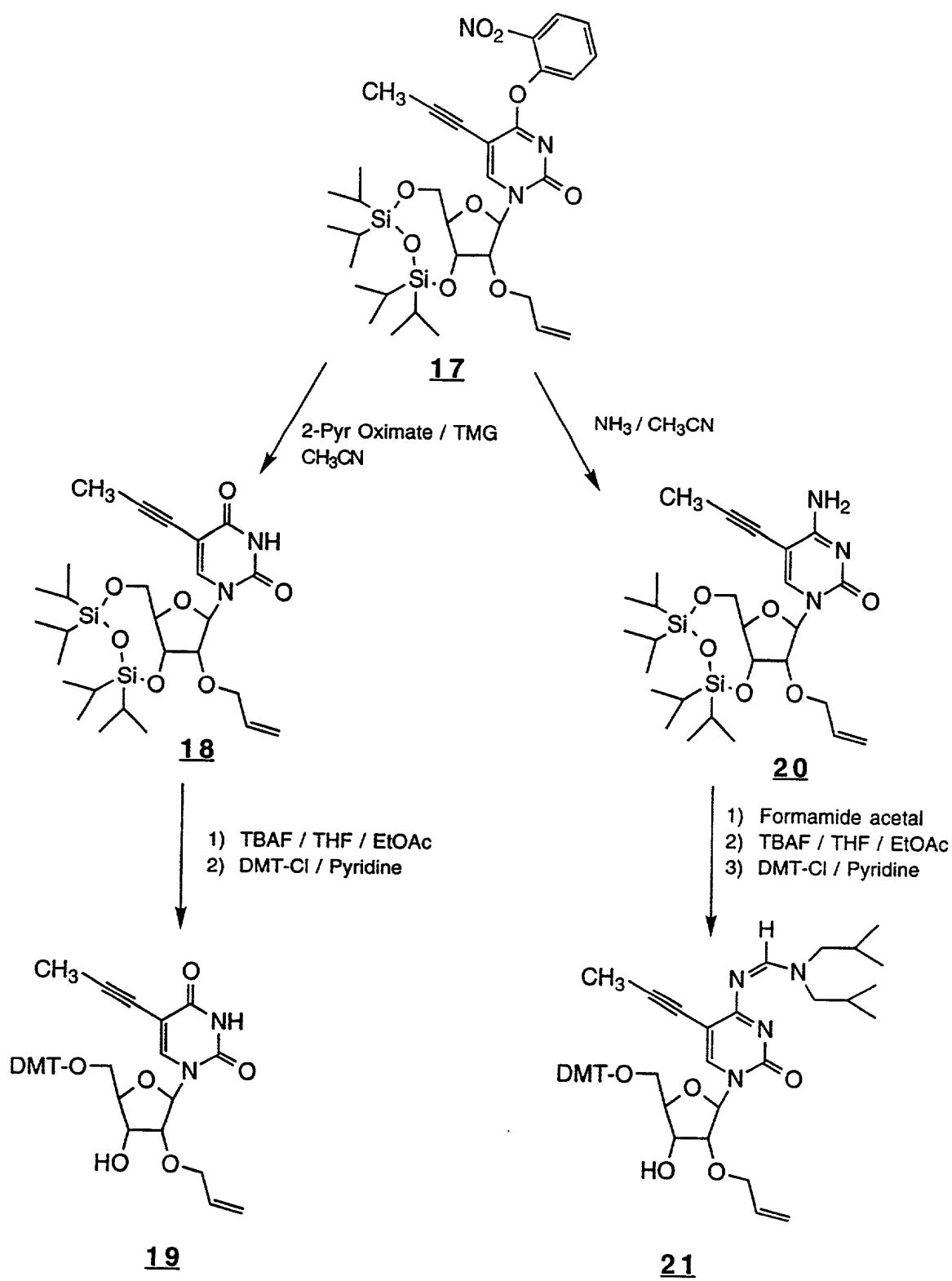


Figure 4-2

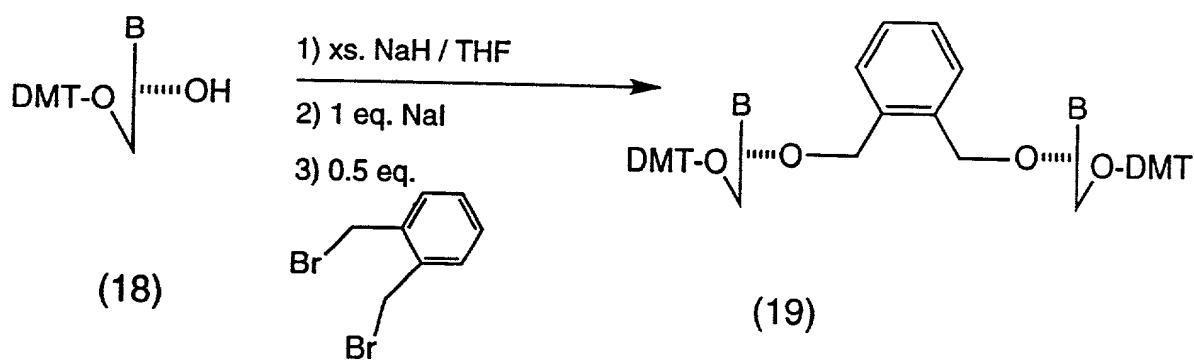
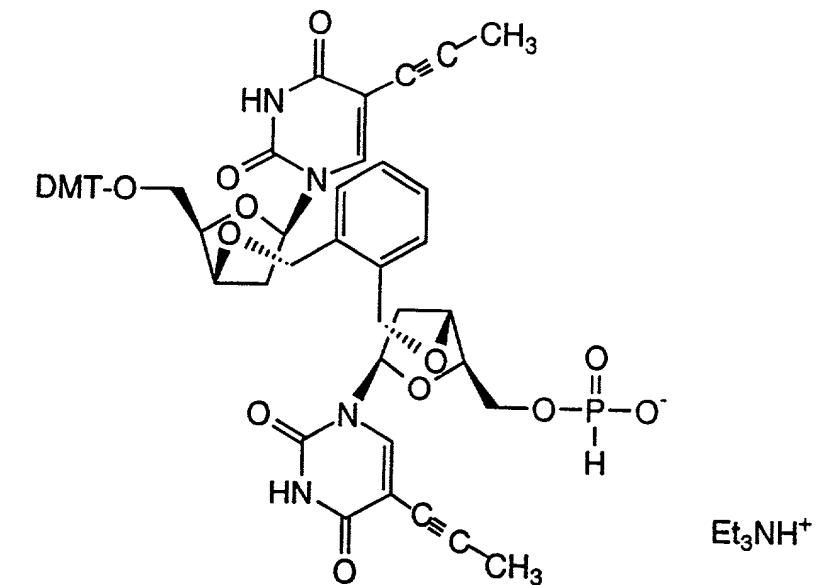


Figure 5-1

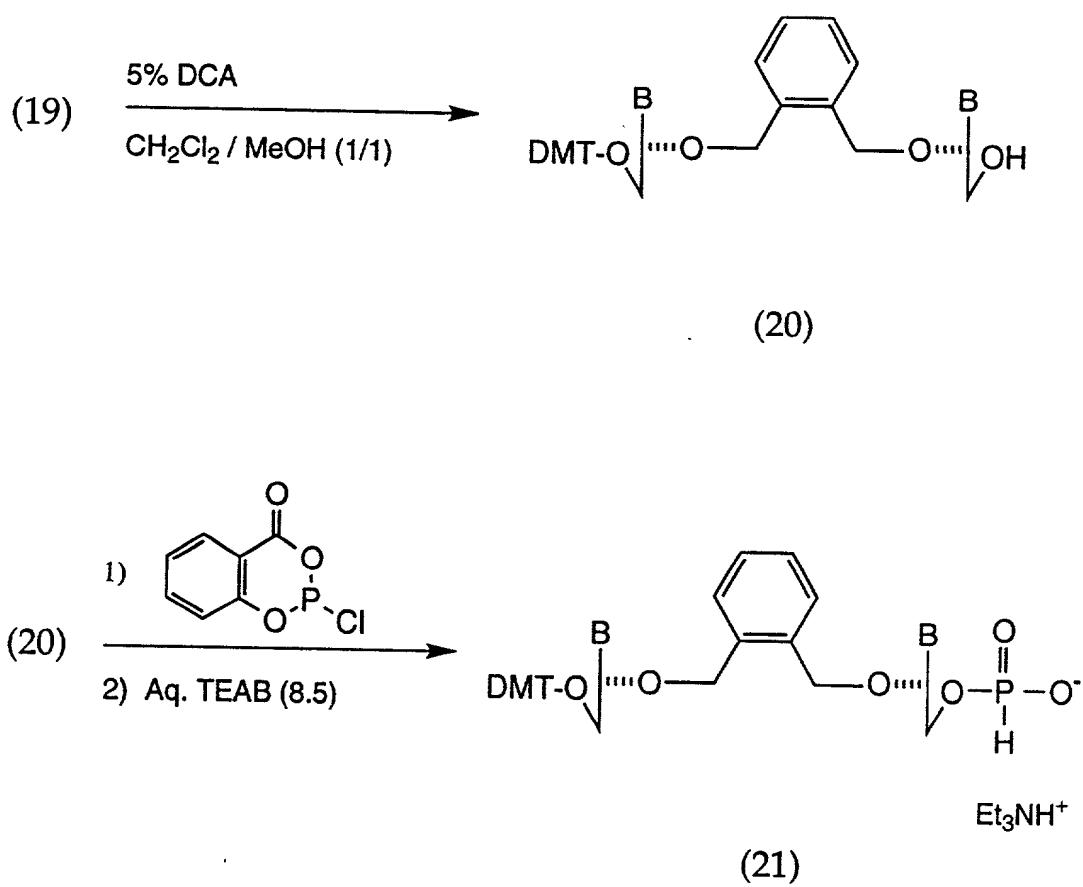


Figure 5-2

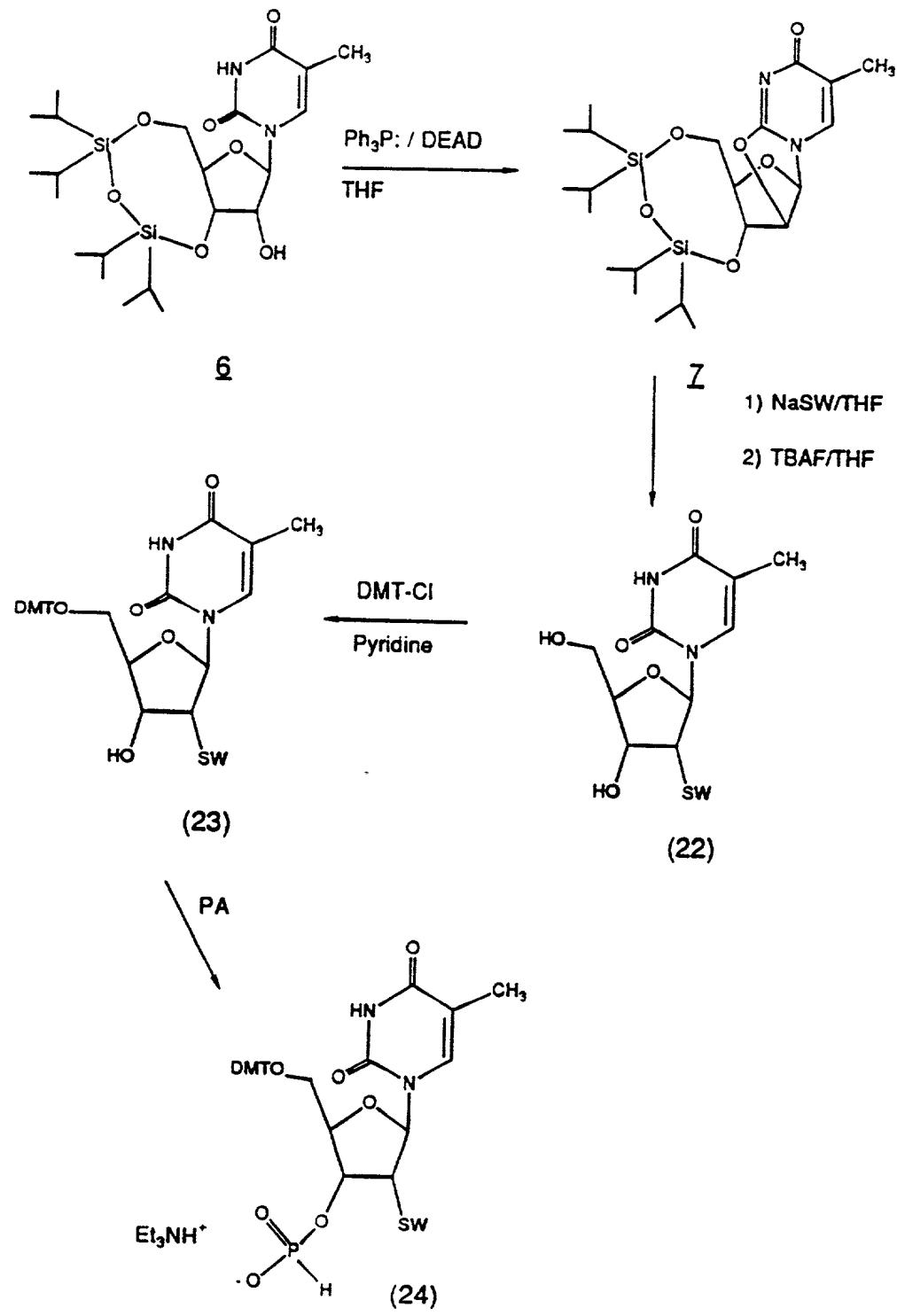


Figure 6

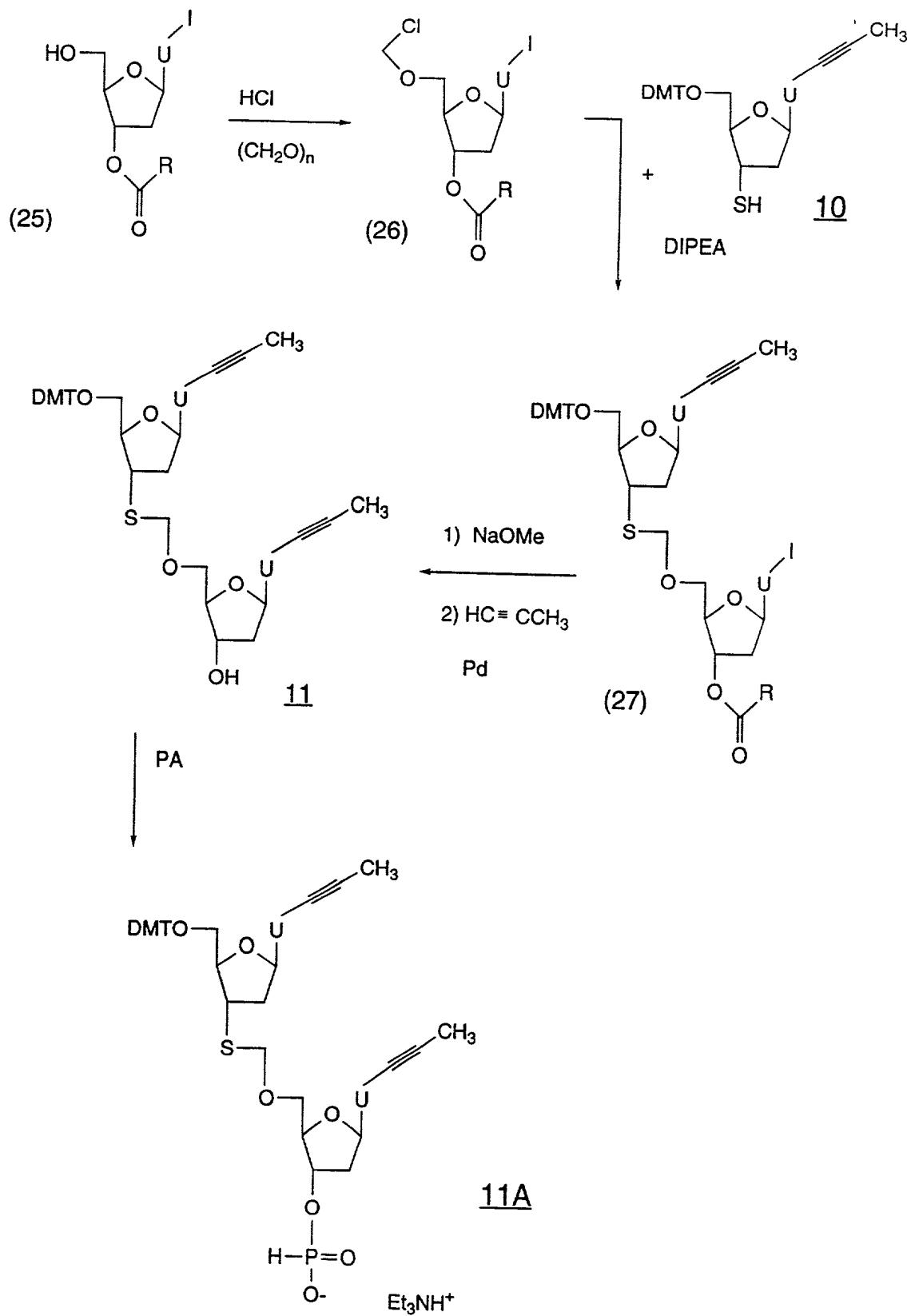


Figure 7

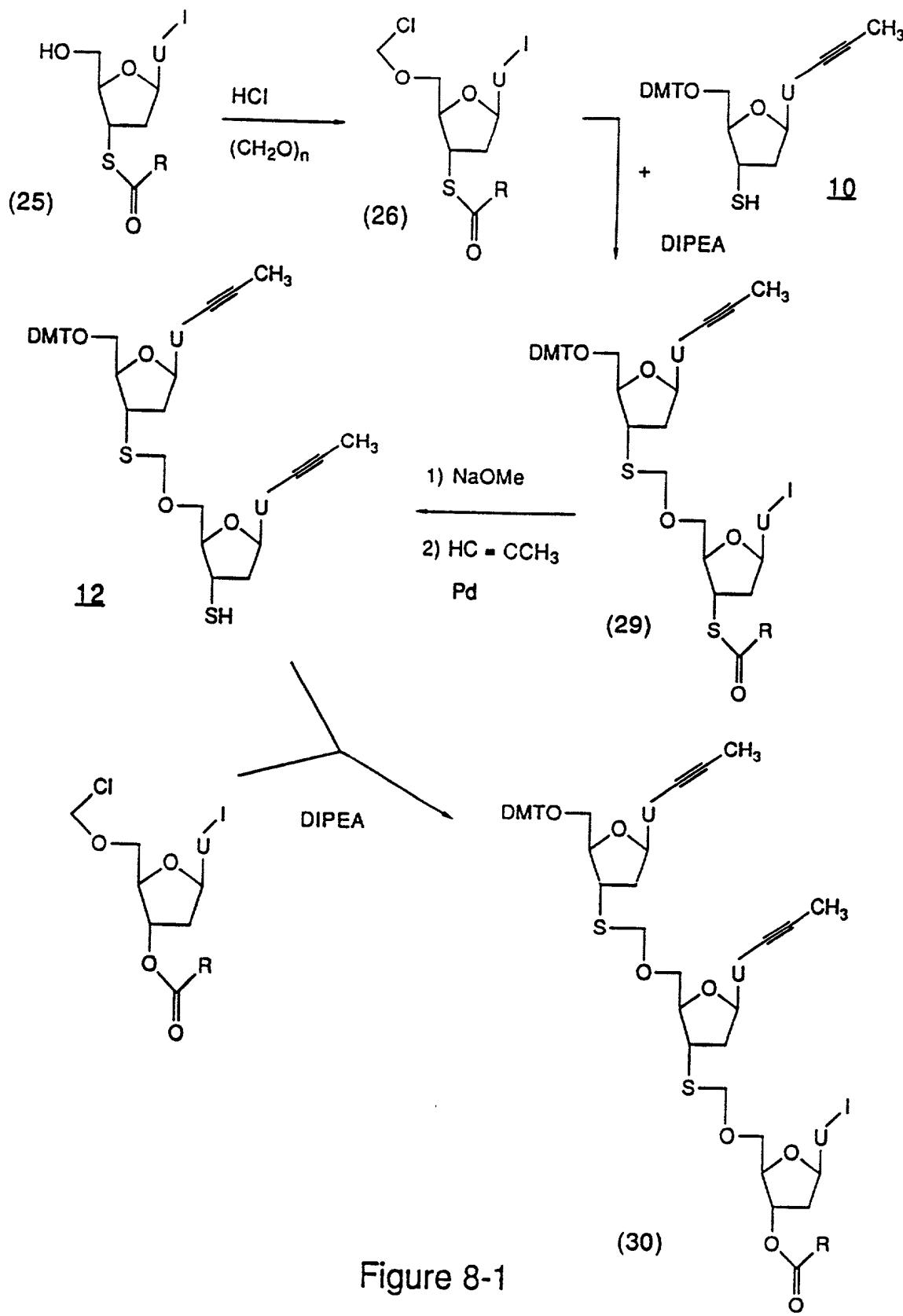


Figure 8-1

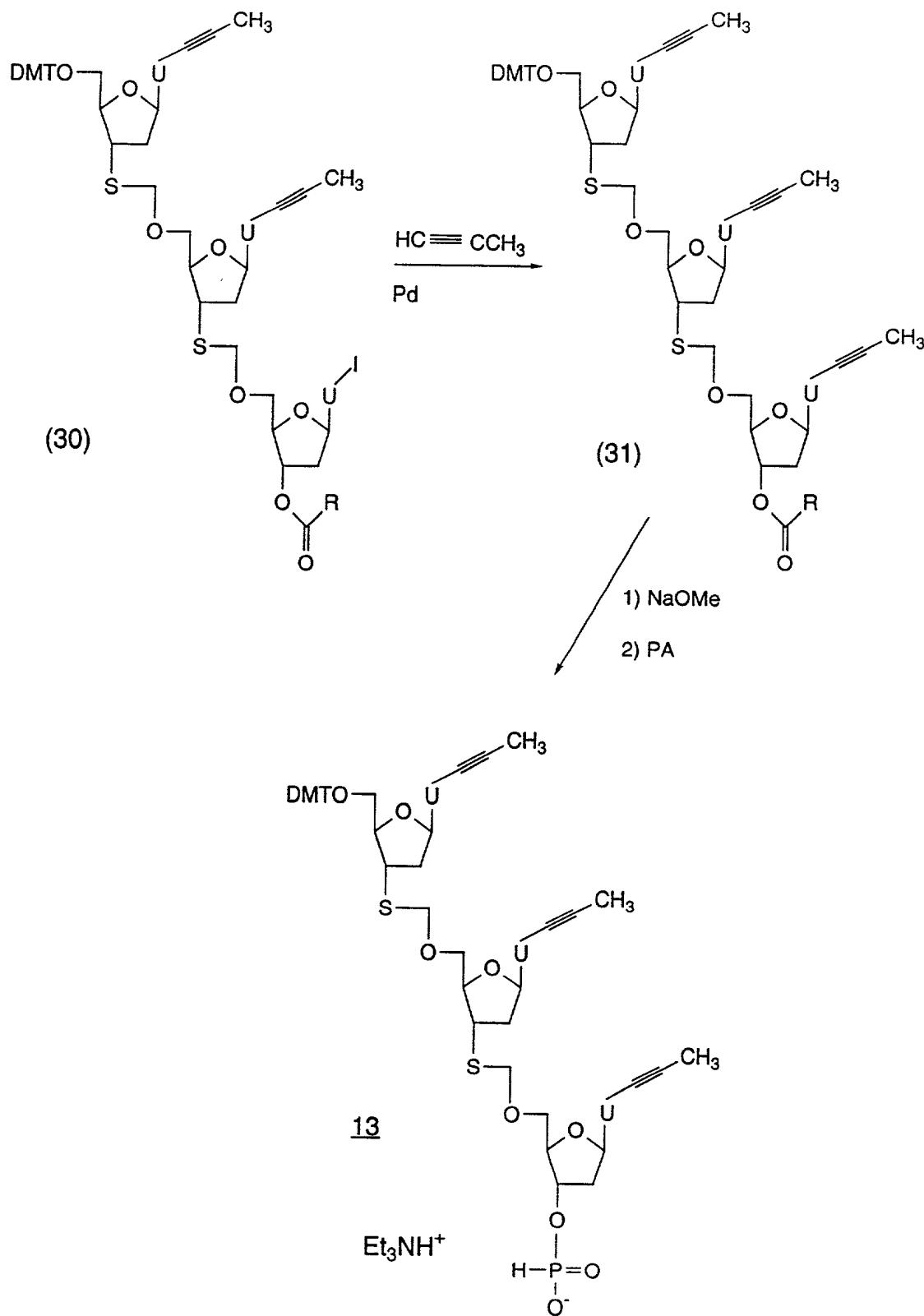


Figure 8-2

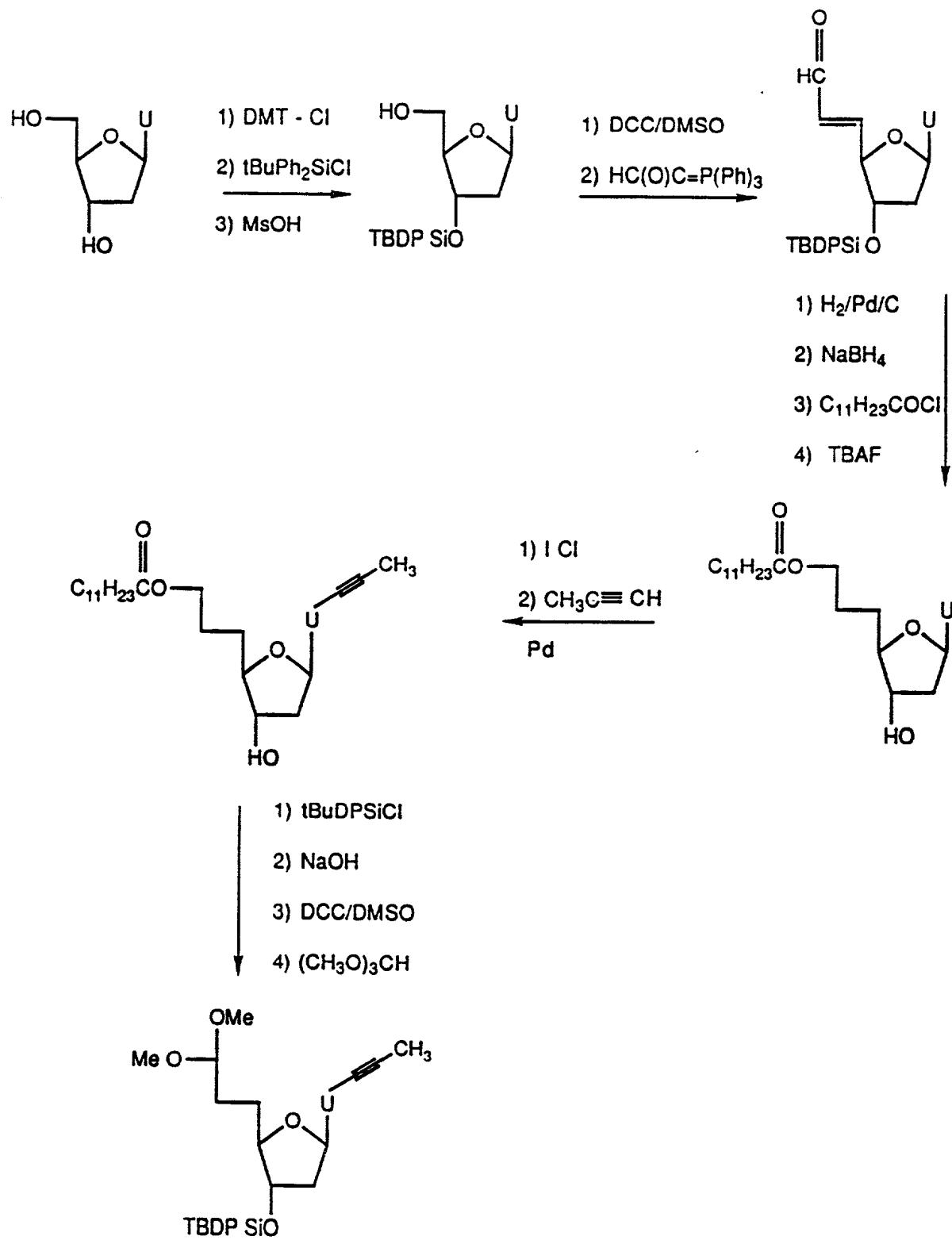


Figure 9-1

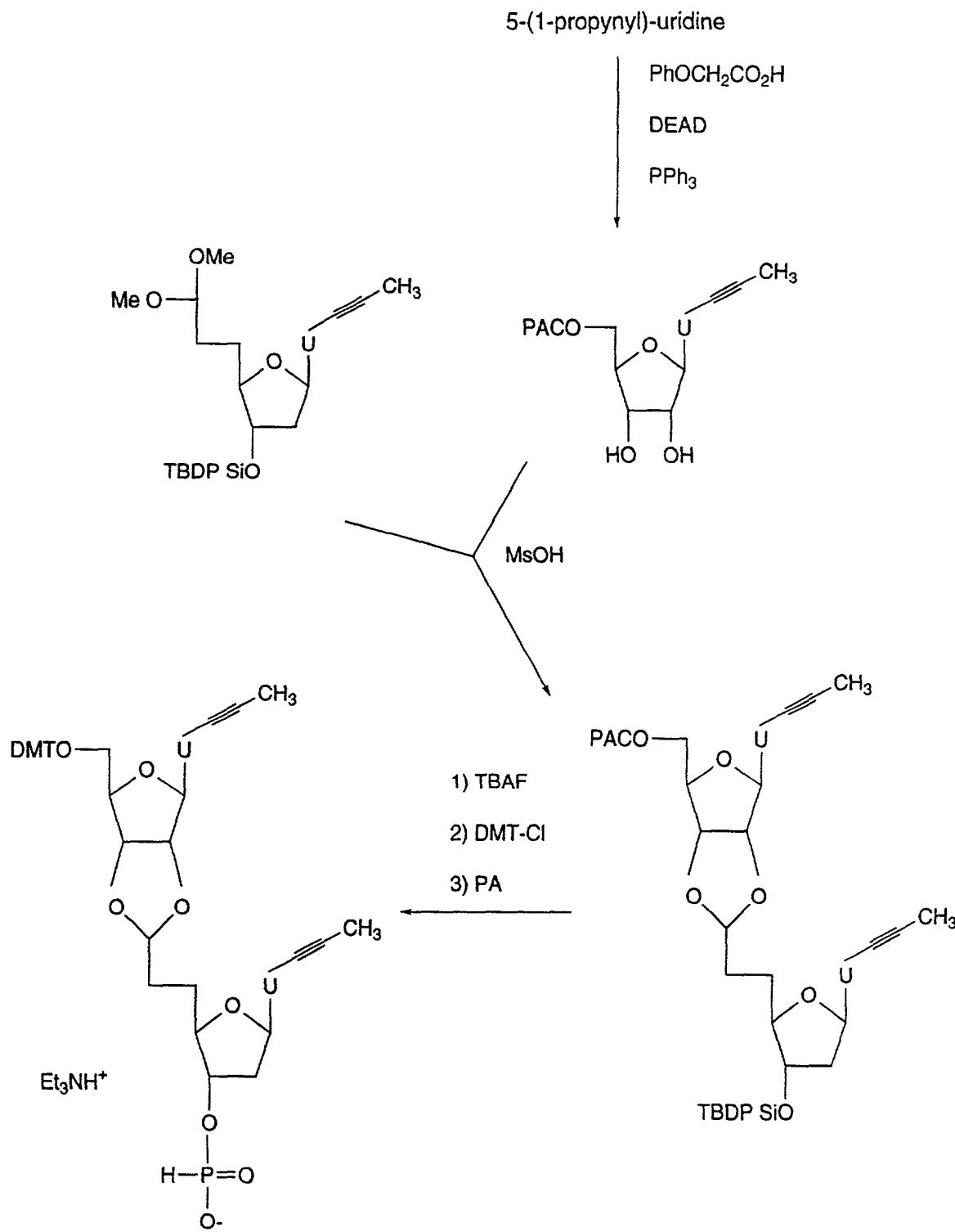
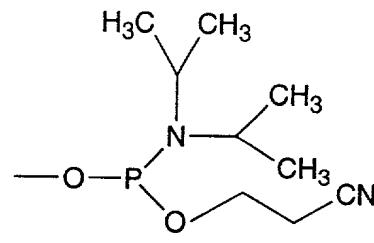
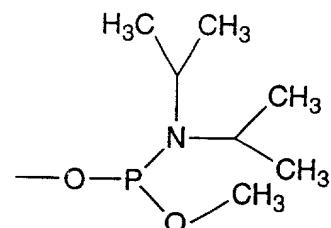
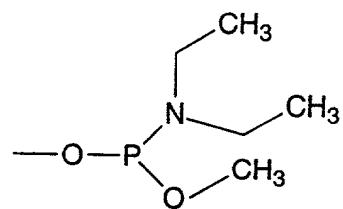


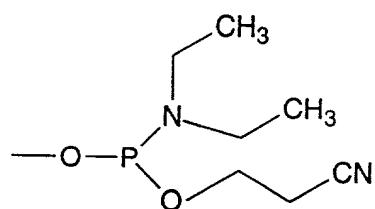
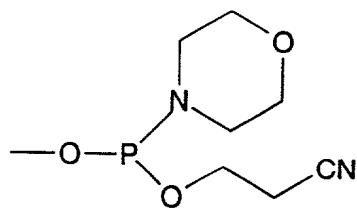
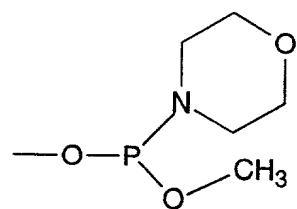
Figure 9-2

N,N-diisopropylamino- β -cyanoethoxyphosphine

N,N-diisopropylamino-methoxyphosphine

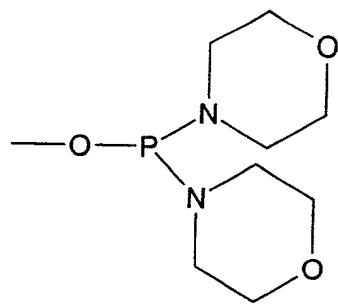


N,N-diethylamino-methoxyphosphine

N,N-diethylamino- β -cyanoethoxyphosphineN-morpholino- β -cyanoethoxyphosphine

N-morpholino methoxyphosphine

Figure 10-1



Bis morpholino-phosphine

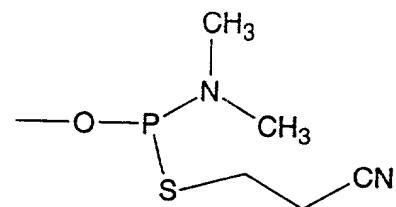
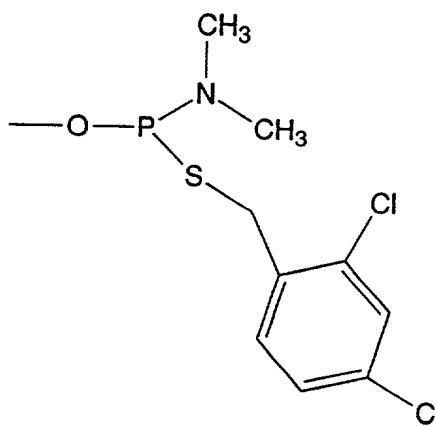
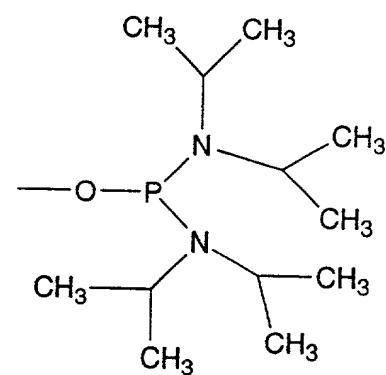
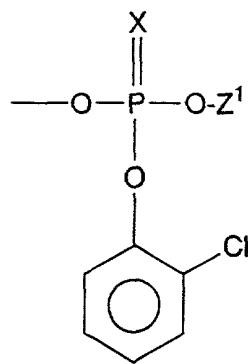
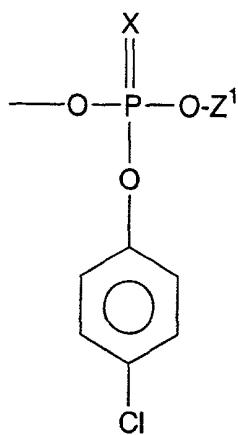
N,N-dimethylamino- β -cyanoethylmercapto-phosphineN,N-dimethylamino-
2,4-dichlorobenzylmercapto-
phosphineBis(N,N-diisopropylamino)-
phosphine

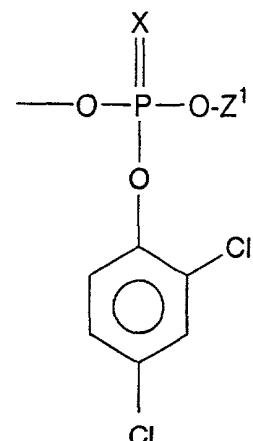
Figure 10-2



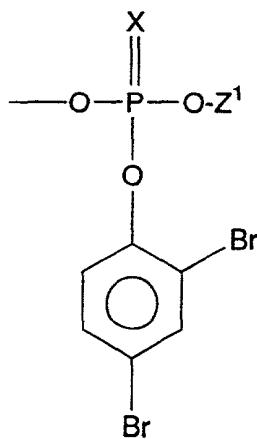
2-chlorophenyl phosphate



4-chlorophenyl phosphate



2,4-dichlorophenyl phosphate



2,4-dibromophenyl phosphate

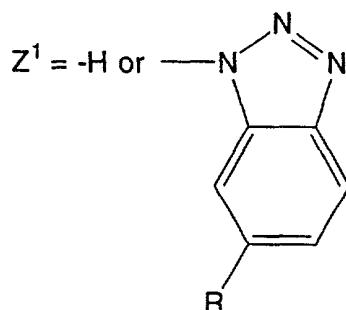
 $X = O$ or S $R = H, NO_2$ and CF_3

Figure 10-3

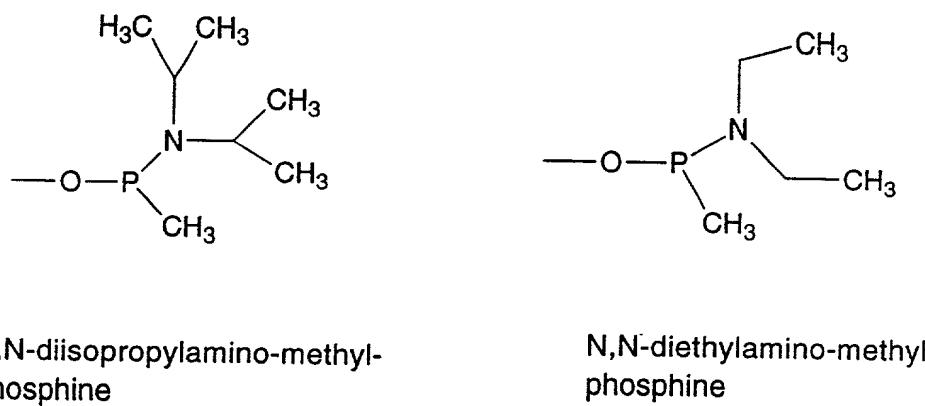


Figure 10-4

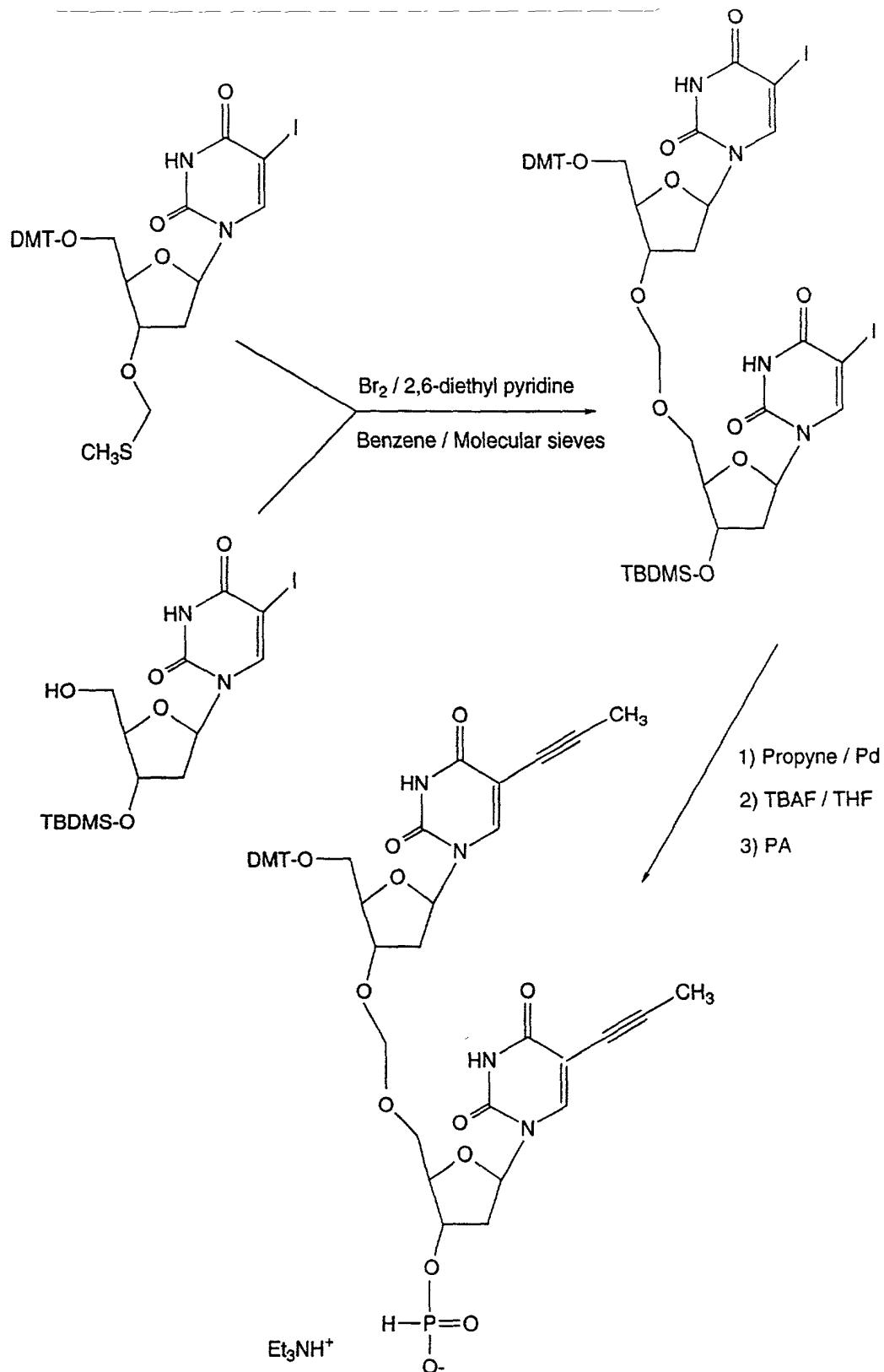


Figure 11

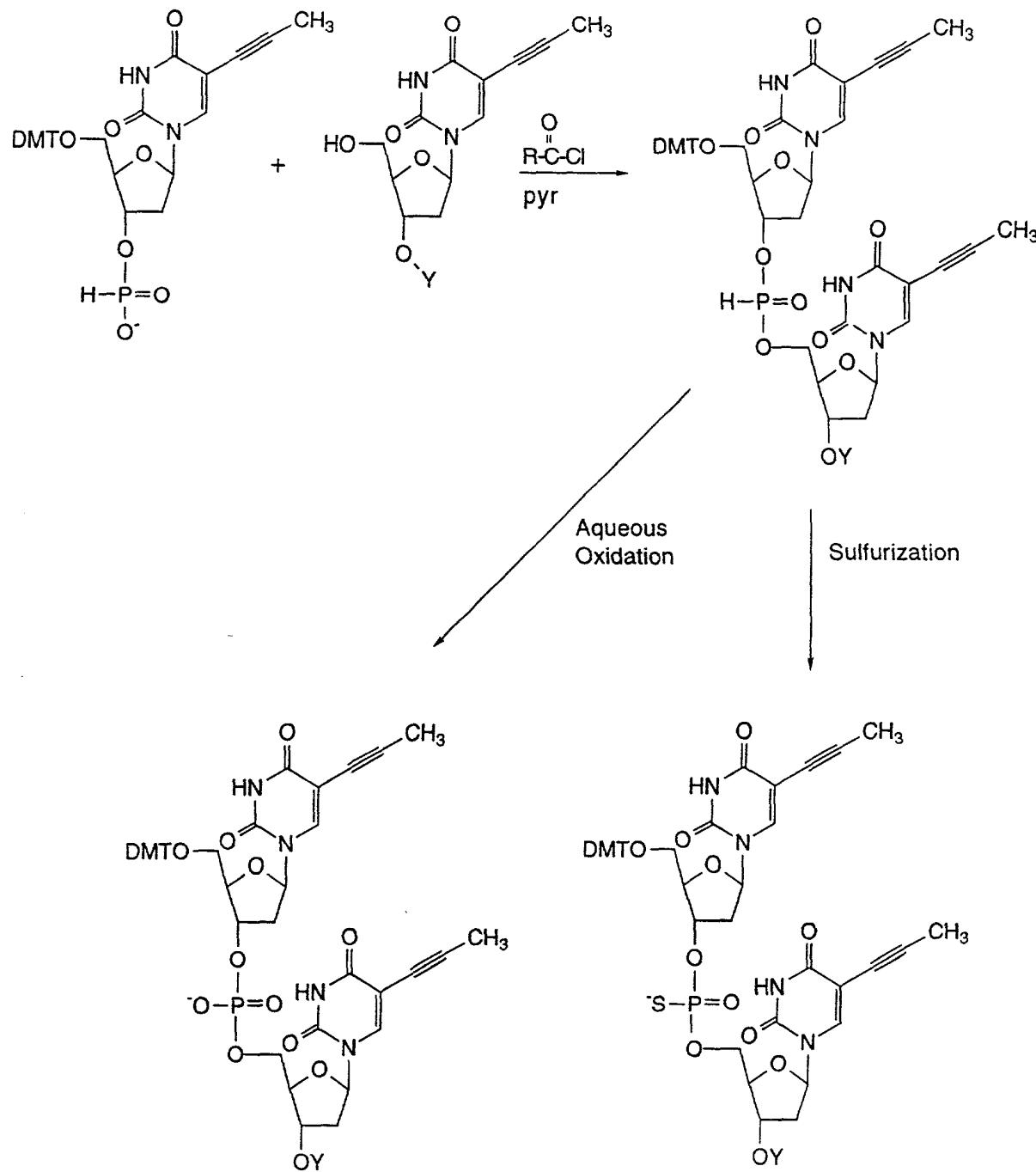


Figure 12-1

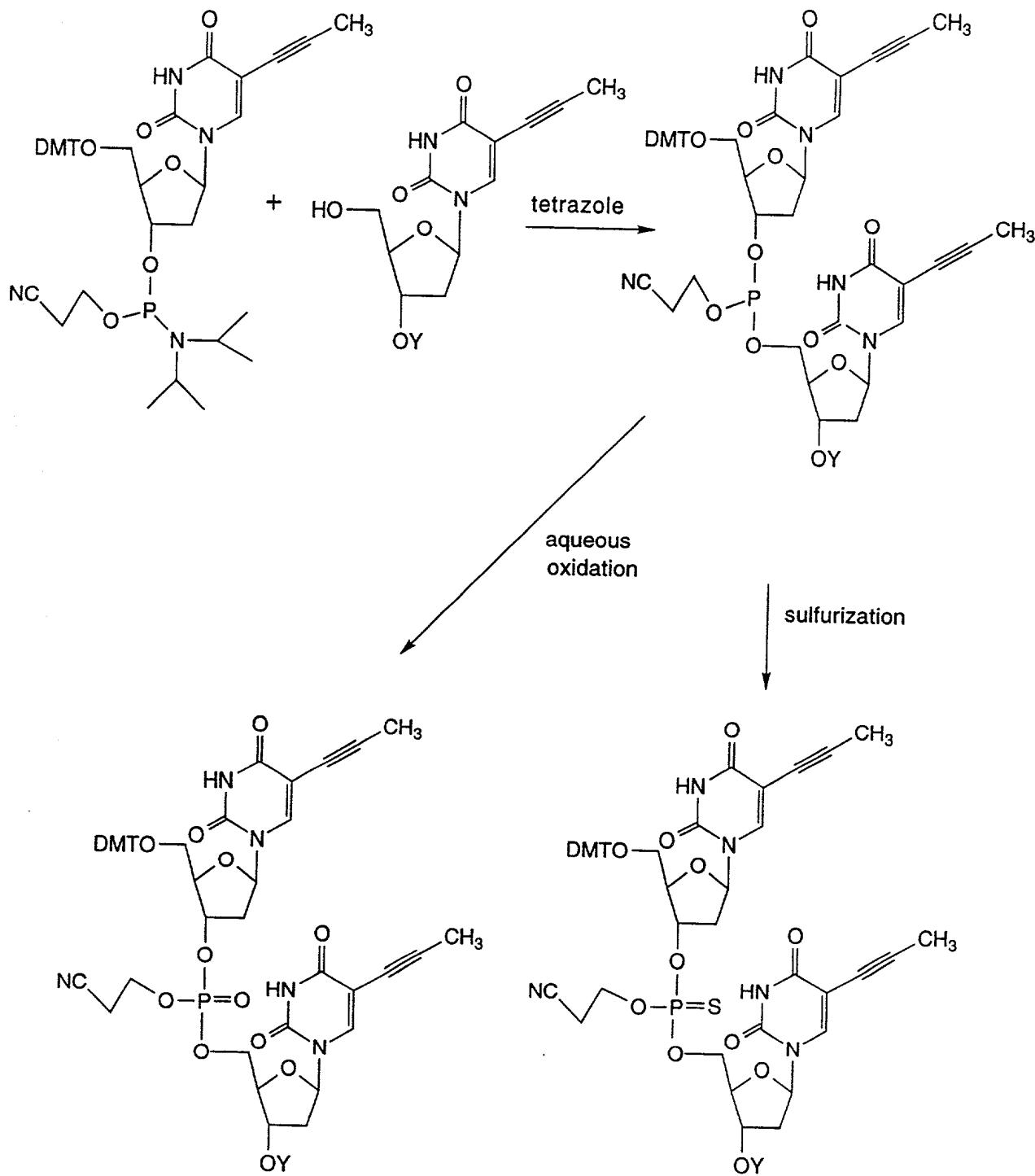


Figure 12-2

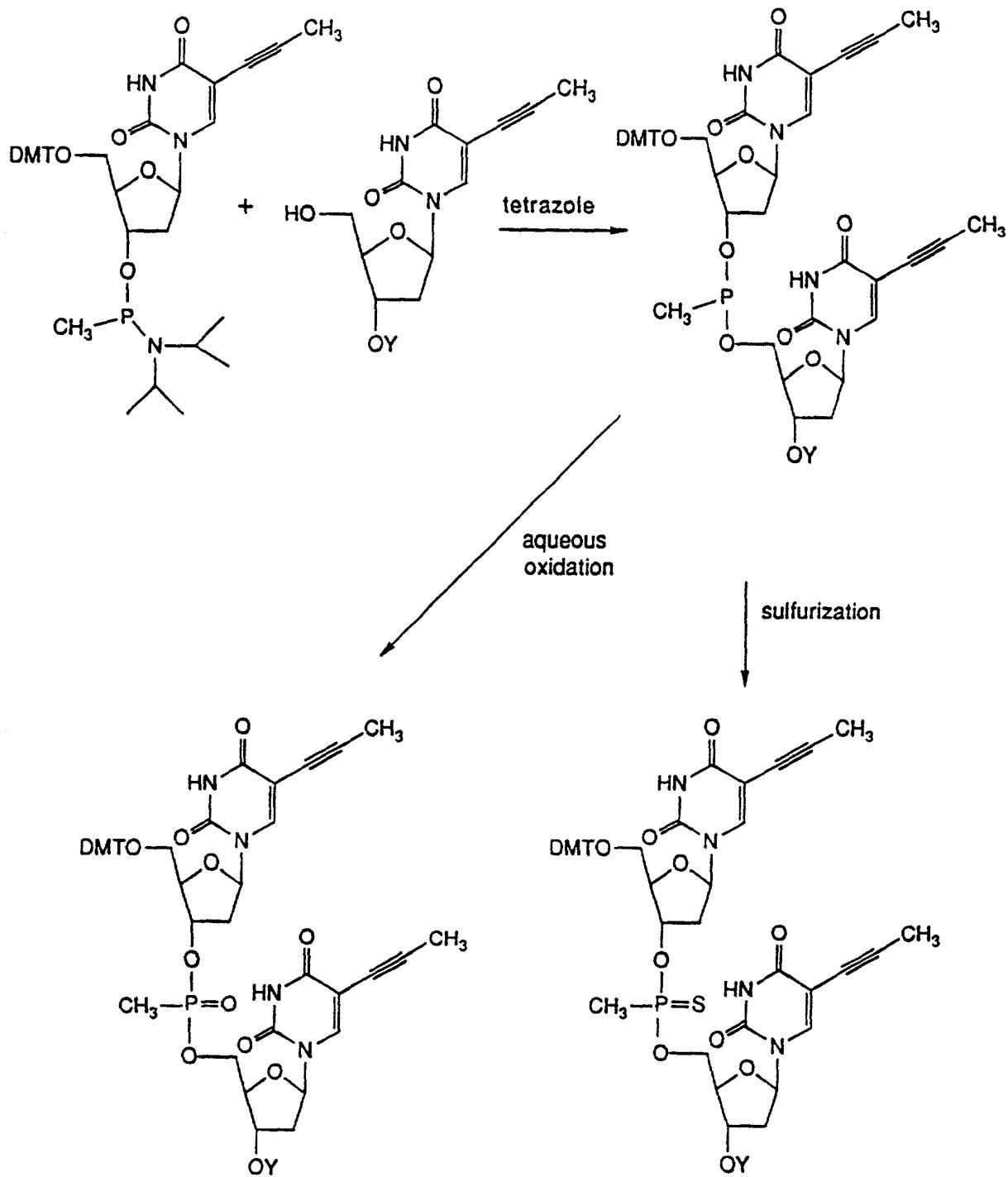


Figure 12-3

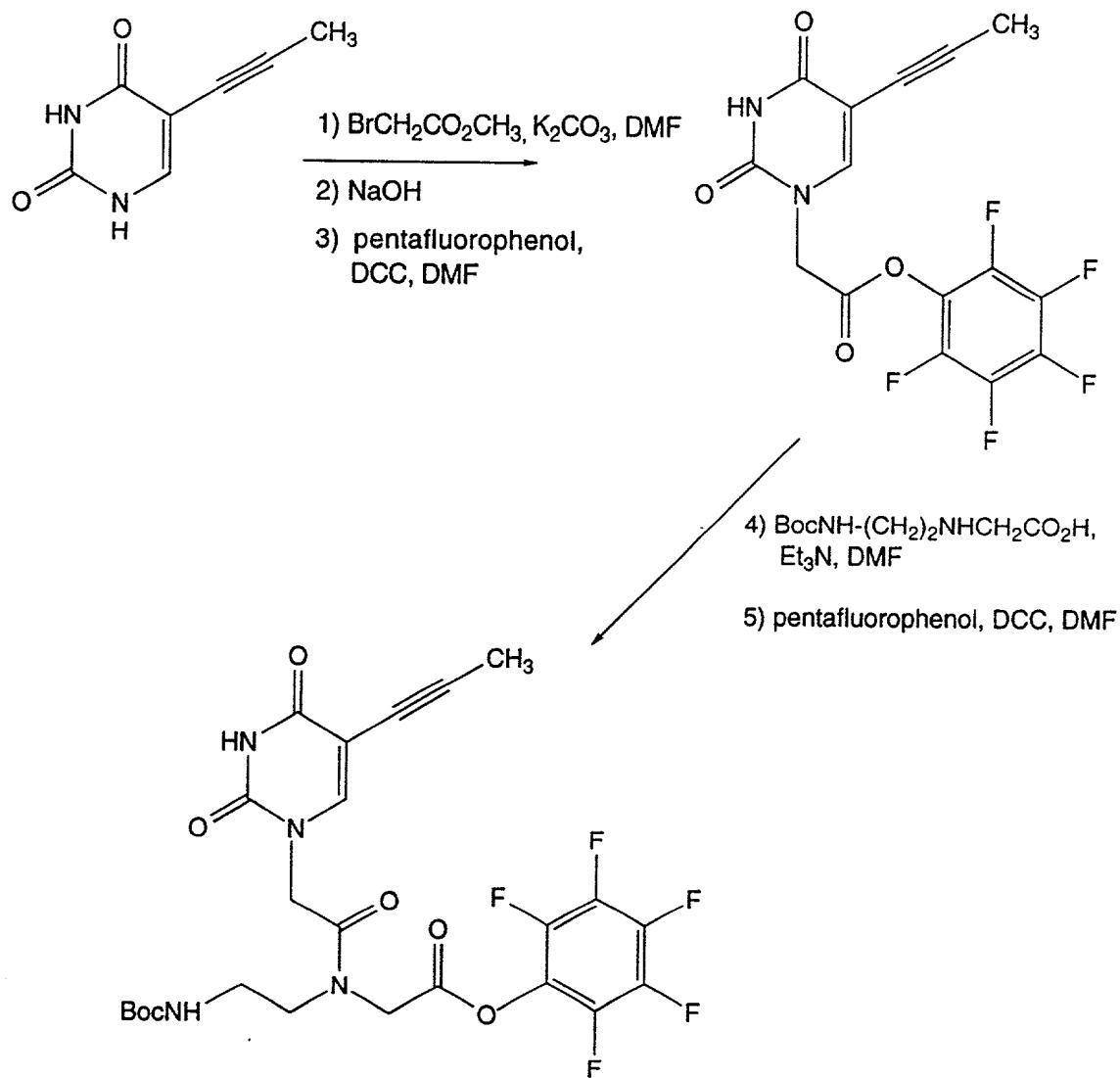


Figure 13

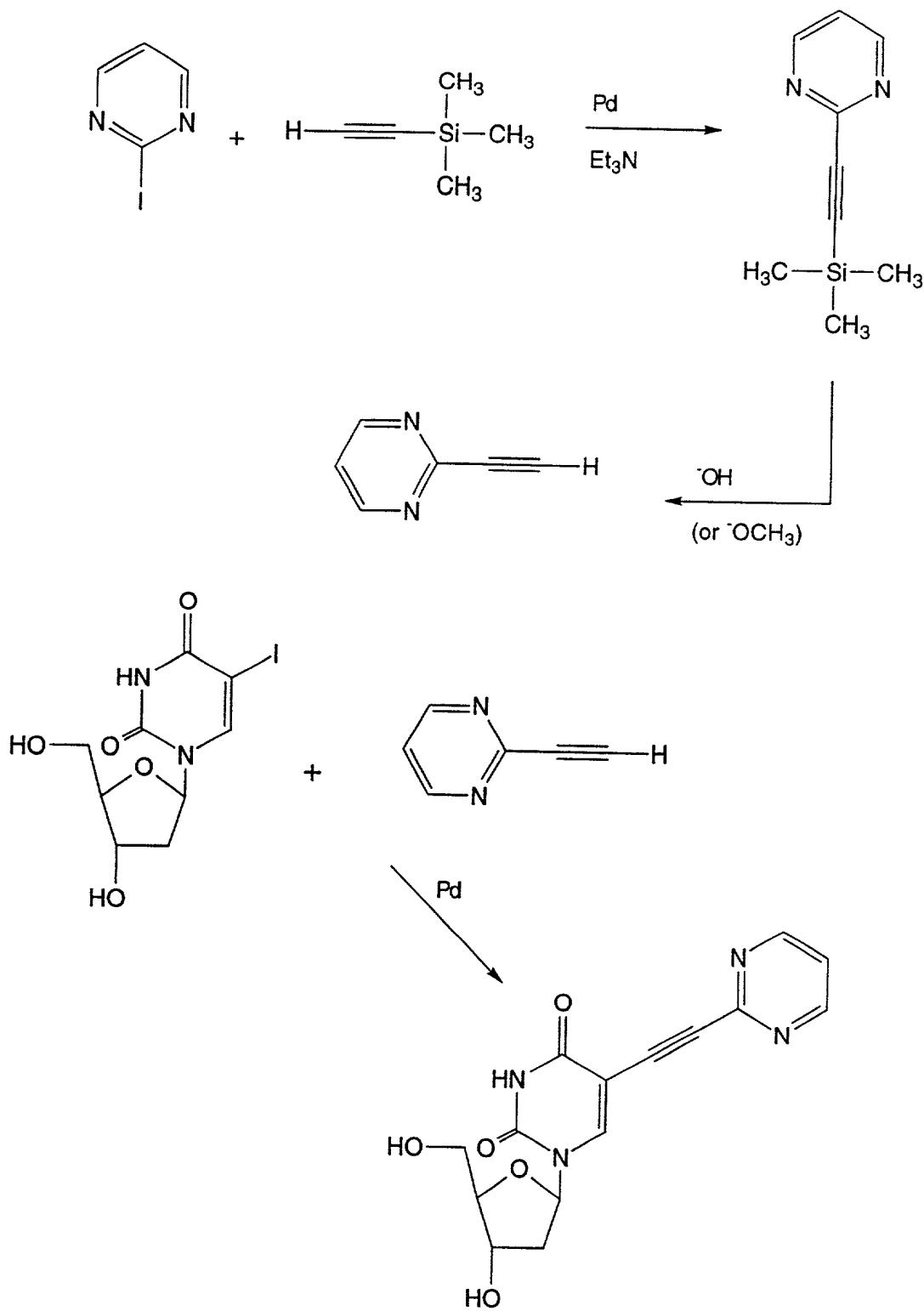


Figure 14

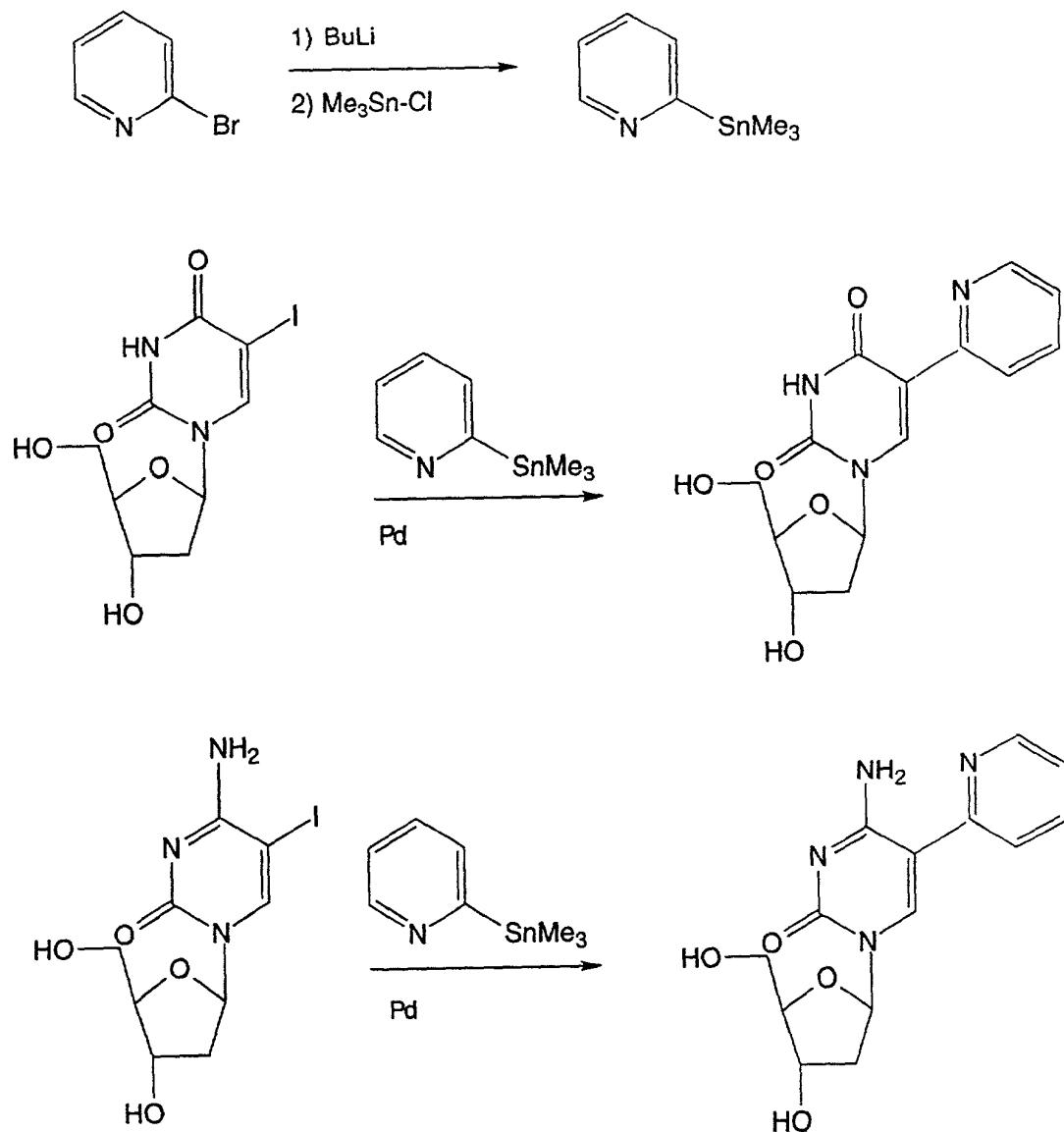


Figure 15

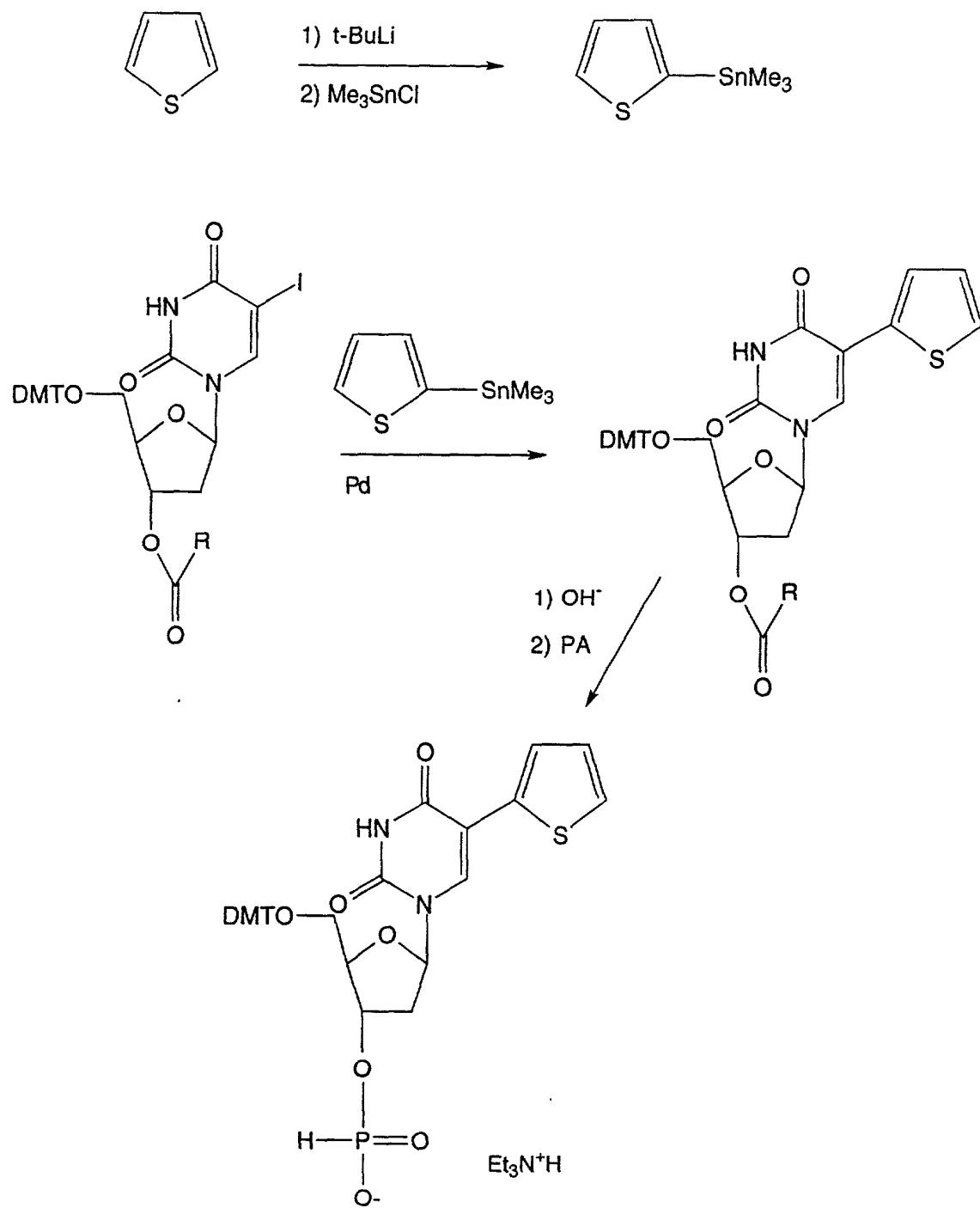


Figure 16

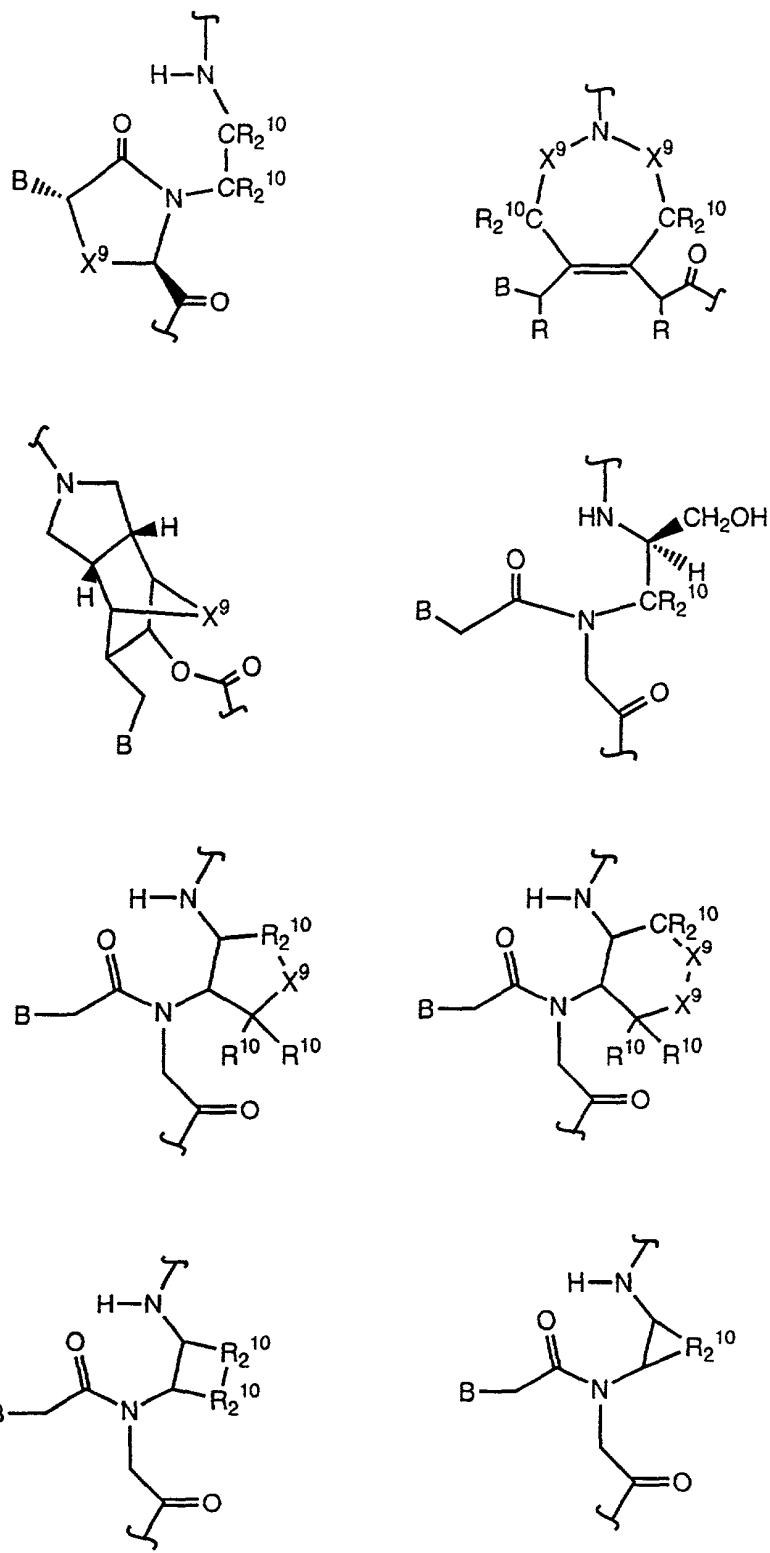


Figure 17-1

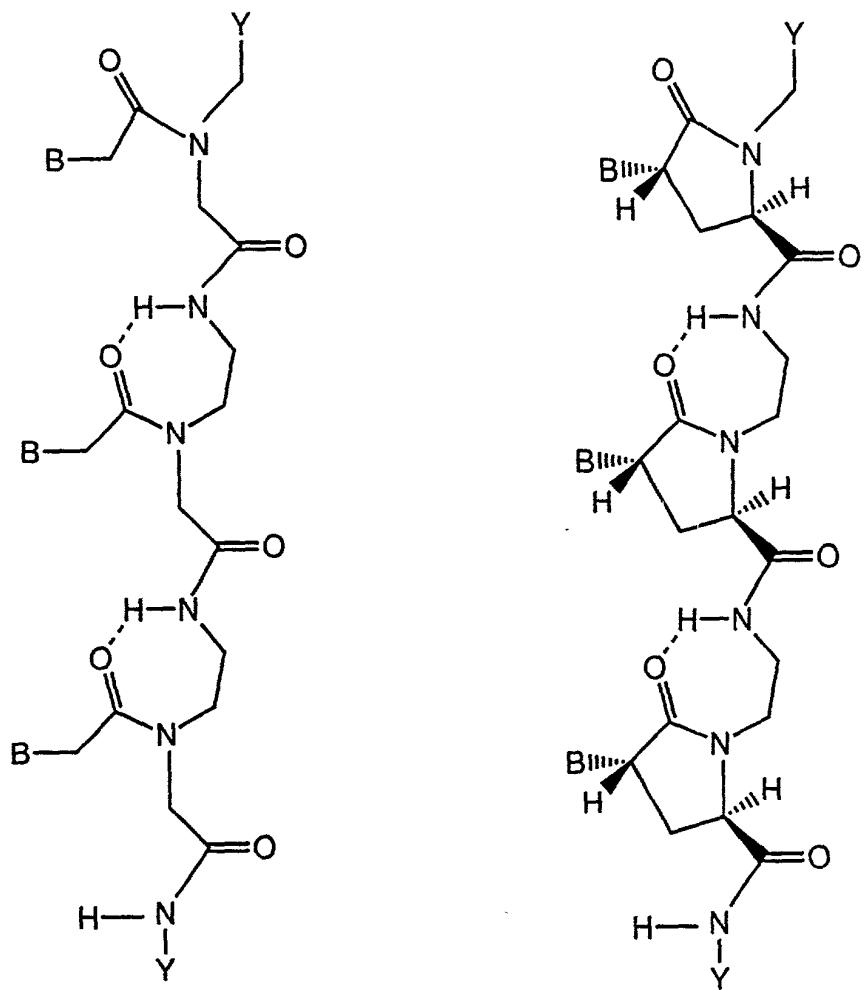


Figure 17-2

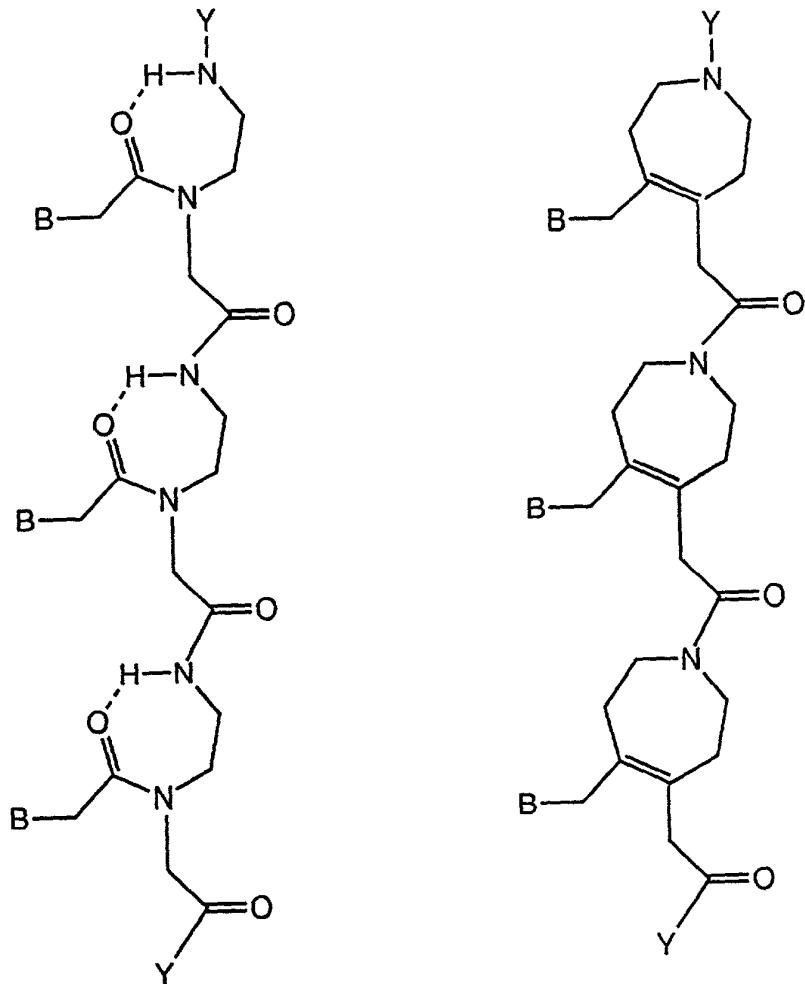


Figure 17-3

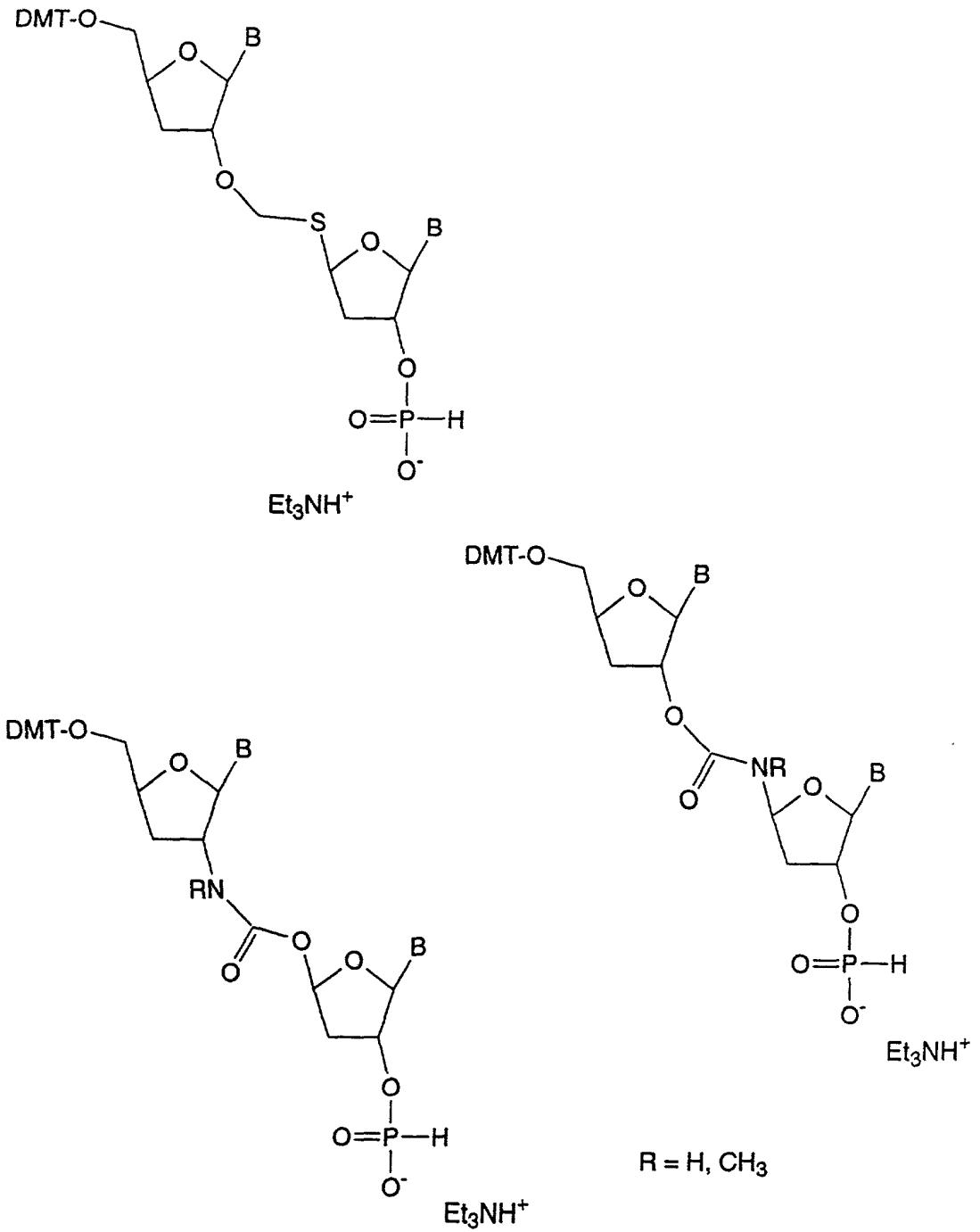


Figure 18